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CMCC Doc. No. 151x5.1222

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DPS-4319
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29 August 1958

Dear Dan:

This proposal is in response to your letter DPS-2144 dated 3 July 1958 requesting that we provide a detailed technical description of our proposed plan to improve Band 1A/1B sensitivity in System 4.

You will recall that on 10 June 1958 we submitted our initial proposal for this work (CMCC Doc. No. 151x5.1143). Since that time our experience with this problem has shown that its correction will be more complex than was initially anticipated. In addition to the first i-f amplifier frequency drift and second local oscillator frequency drift which was observed at that time, there now appears to be a decrease in gain in the first and second i-f amplifier and a drift in the cross-over frequency of the AFC discriminator. We propose to redesign the first and second i-f assemblies of each of these receiving channels to correct this tendency. In addition, Band 1A/1B receiving channels have been displaying spurious signals originating in the second local oscillators. In order to correct this we propose to repack the first i-f assemblies on both bands. Both the increased complexity of the sensitivity problem and the spurious signal problem have been discussed with Customer representatives, and they are in agreement with our proposed solution. The accompanying technical proposal describes these problems and their solution in more detail.

As shown in the enclosed statement of work and delivery schedule, field modification kits incorporating these changes into all eight systems can be delivered within twelve weeks after receipt of authorization to proceed. The preparation of these kits will not affect present System 4 delivery schedules.

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This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18 U.S.C., Section 793 and 794. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

*Not approved  
for incorporation  
into A-101*

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25X1 The accompanying cost estimate shows the total estimated  
cost of preparing these modification kits to be [ ] The fee at  
25X1 [ ] and the total estimated cost including fee is  
[ ] This is new work not covered by present contract funding.

25X1

Sincerely,

  
Dean

Enclosures:

Copies 1 - 3 of  
CMCC Doc. No. 1132x5.233, Cost Estimate  
CMCC Doc. No. 1131x5.156, Statement of Work  
CMCC Doc. No. 1134x5.80, Delivery Schedule  
Copies 1 - 5 of  
CMCC Doc. No. 1133x5.69, Technical Proposal

cc: J. L. W. - A. G. O. (Copy 4)

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